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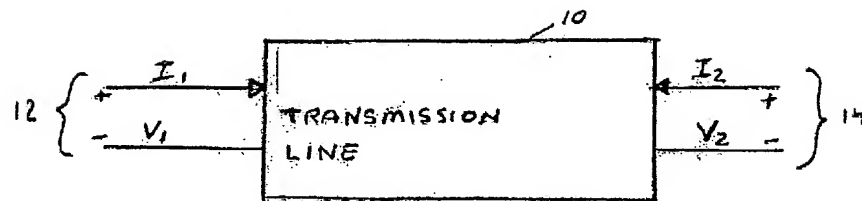


Figure 1

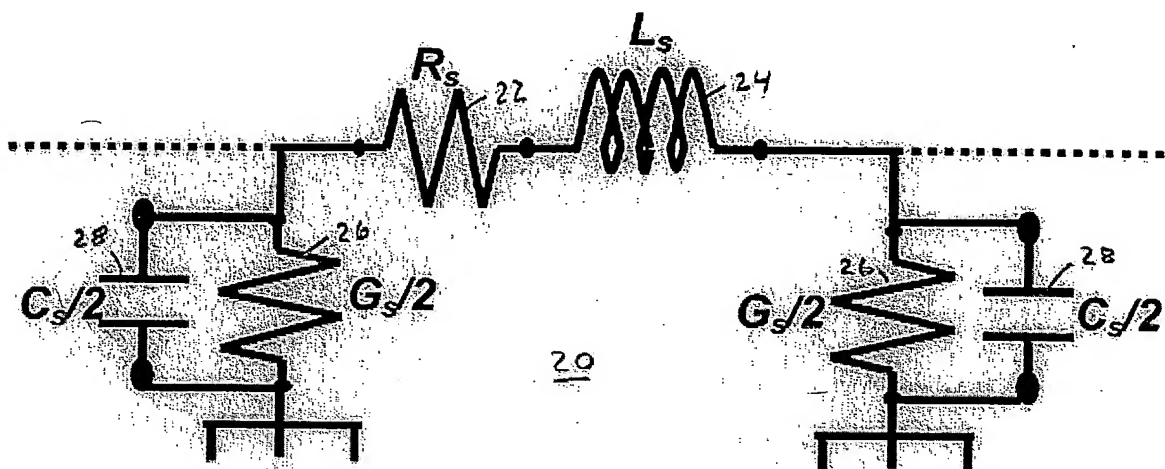


Figure 2

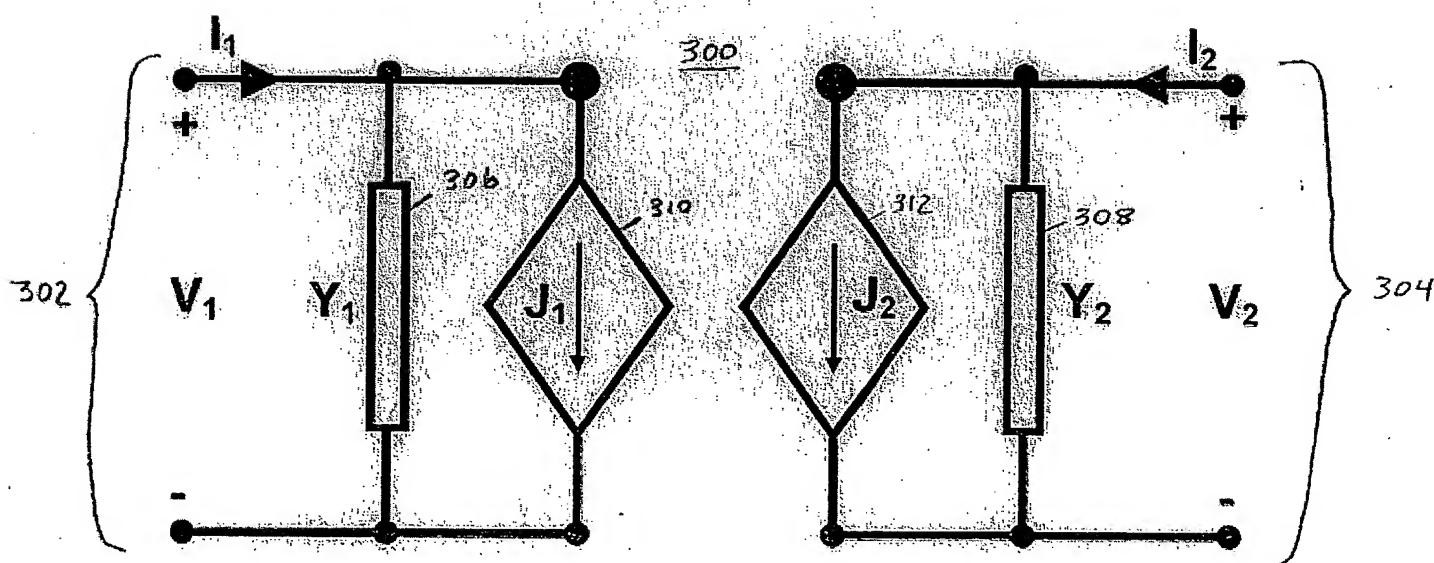
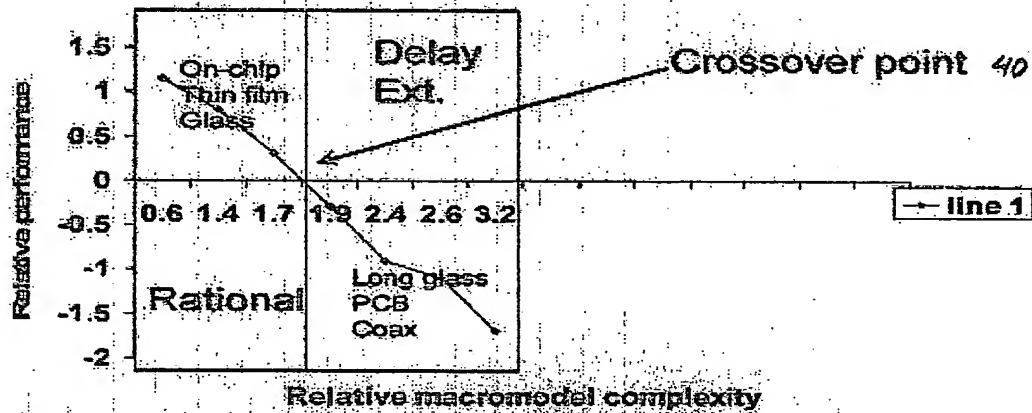


Figure 3

## Efficiency of transmission line macromodels



Relative model complexity =  $\log(\text{rational\_nodes}/\text{ext\_delay\_nodes})$

Relative performance =  $\log(\text{rational\_cpu}/\text{ext\_delay\_cpu})$

Figure 4

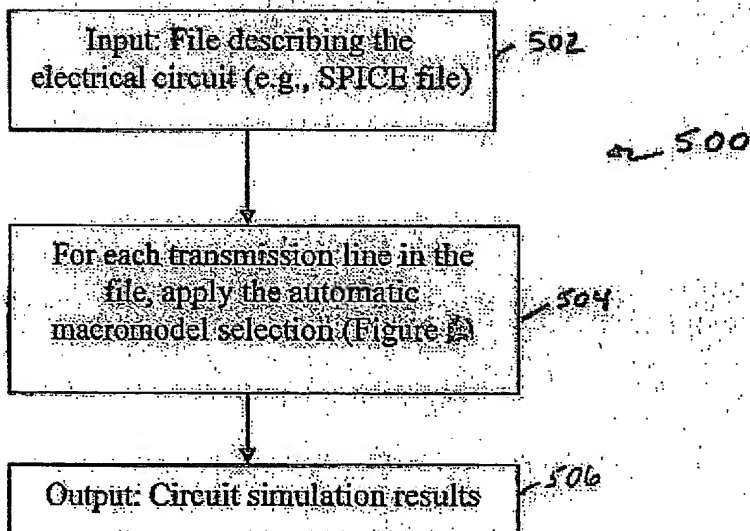


Figure 5

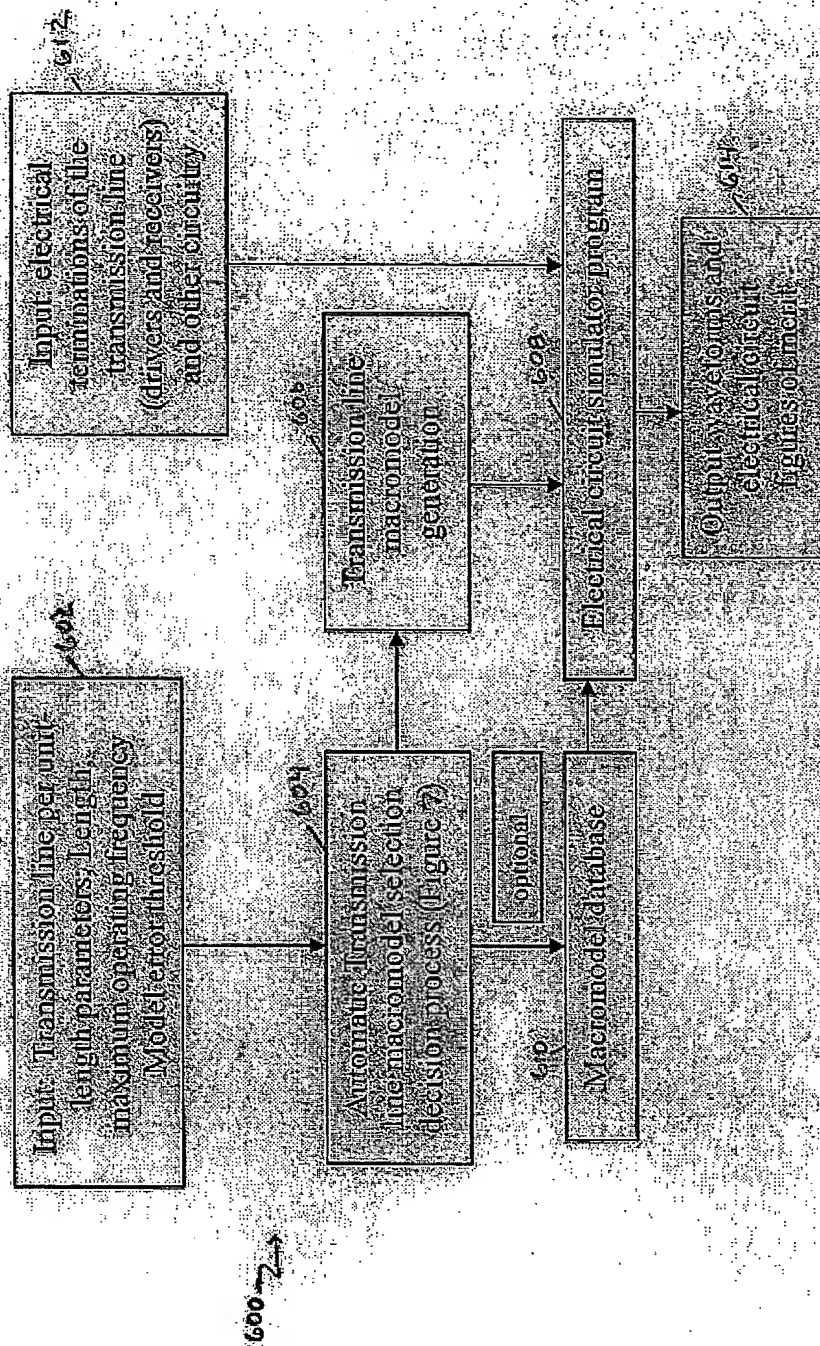


Figure 6

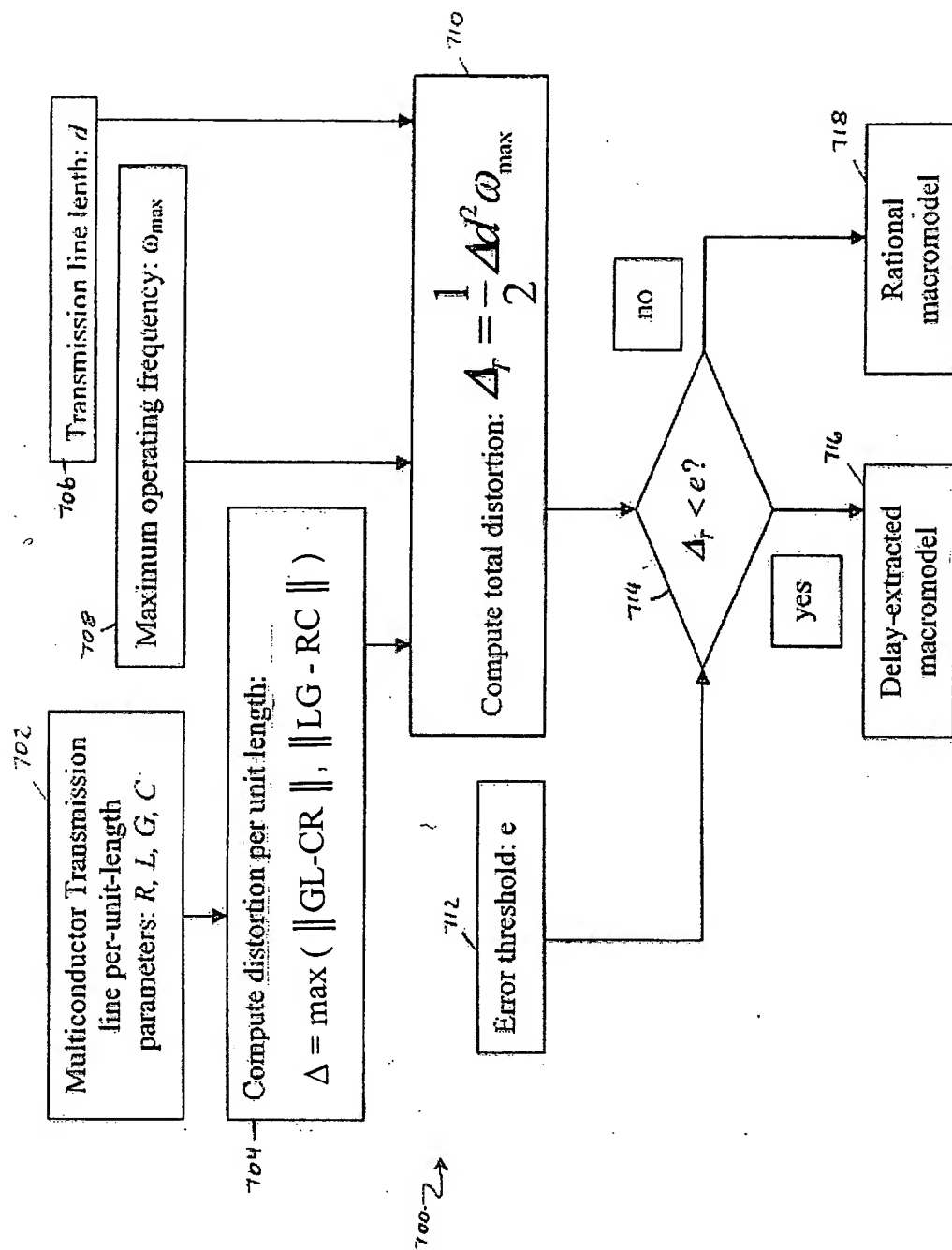


Figure 7